

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P197815

Luminaire Tested: **TT-C5-LED-E1-WQ-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-CG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7679.9 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

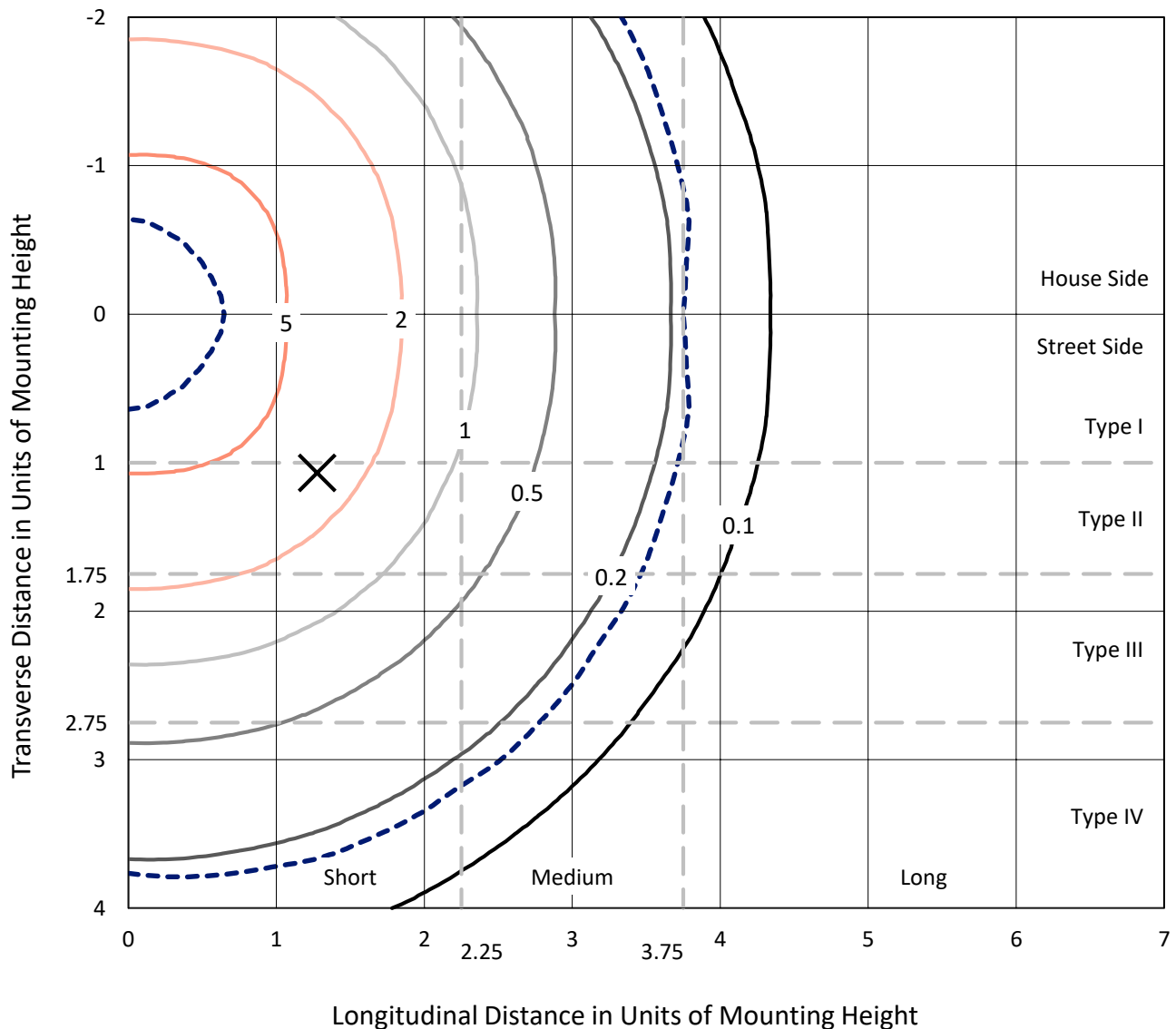


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

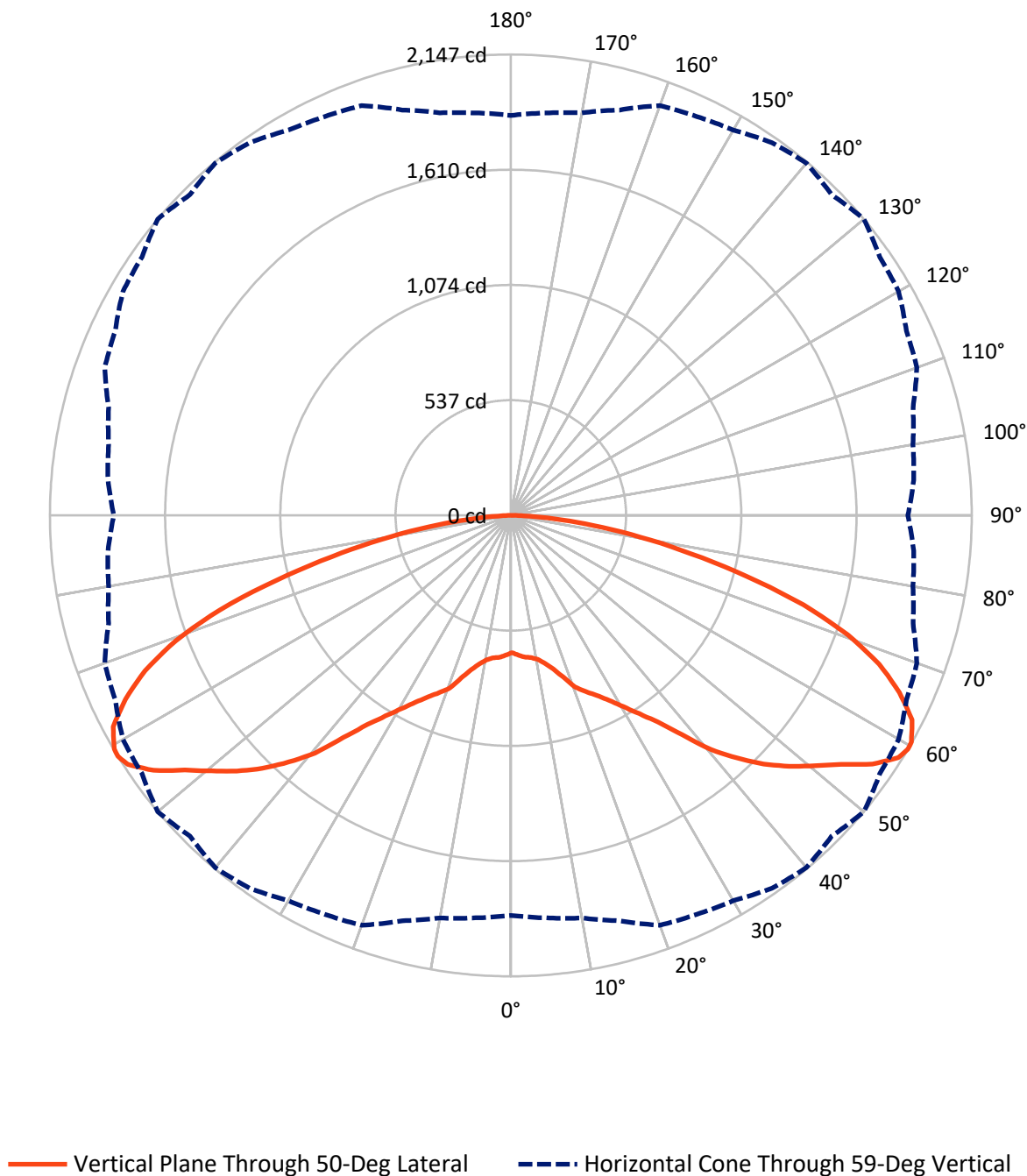


Based on 10 foot mounting height. Maximum calculated value = 7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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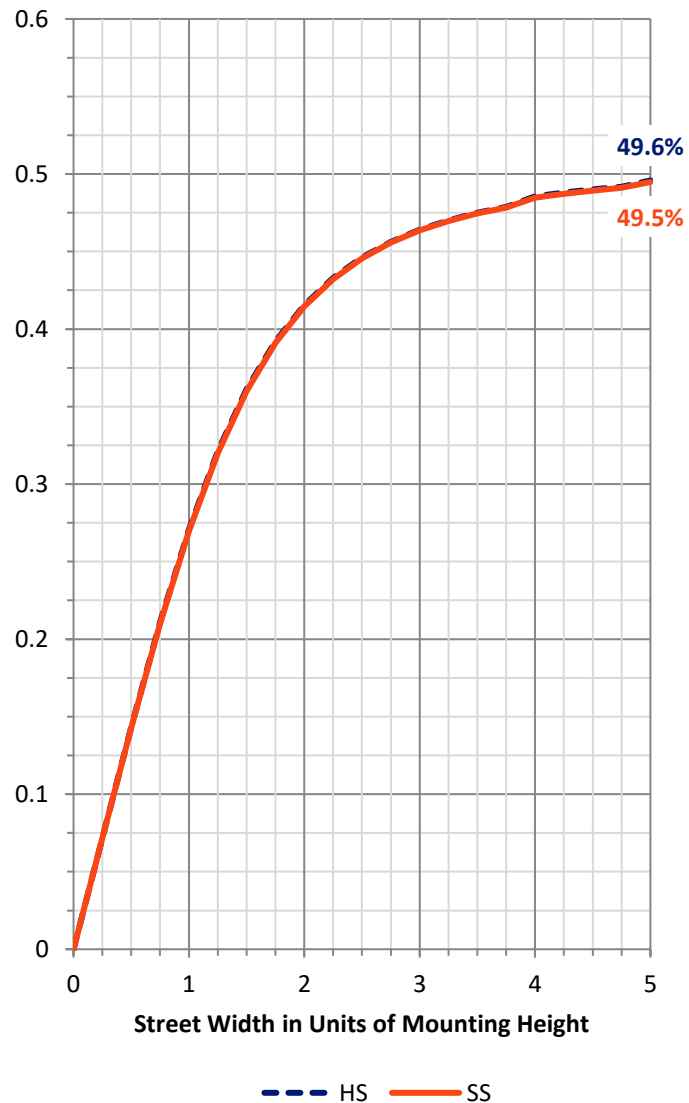
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3839.9	0.0	3839.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3839.9	0.0	3839.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7679.9	0.0	7679.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	0.8
10°-20°	214.5	2.8
20°-30°	431.6	5.6
30°-40°	742.8	9.7
40°-50°	1226.3	16.0
50°-60°	1726.8	22.5
60°-70°	1847.3	24.1
70°-80°	1173.4	15.3
80°-90°	253.6	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7679.9	100.0
0°-180°	7679.9	100.0

Coefficient of Utilization



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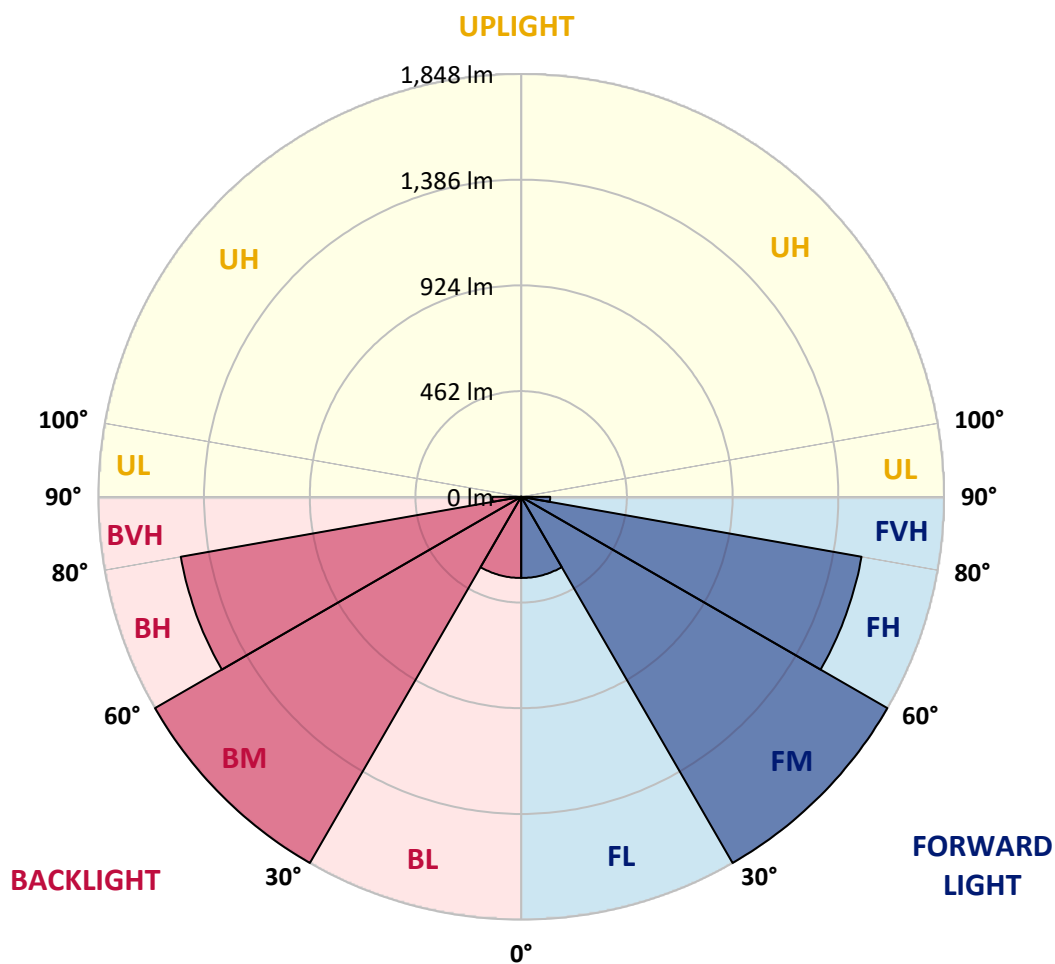
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.8	4.6			
FM	(30°-60°)	1847.9	24.1			
FH	(60°-80°)	1510.4	19.7			G1/1800
FVH	(80°-90°)	126.8	1.7			G2/225
BL	(0°-30°)	354.8	4.6	B1/500		
BM	(30°-60°)	1847.9	24.1	B2/2500		
BH	(60°-80°)	1510.4	19.7	B3/2500		G1/1800
BVH	(80°-90°)	126.8	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2
2.5°	652.8	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1
5°	656.2	656.2	657.9	657.9	659.6	659.6	659.6	661.3	661.3	661.3	663.0
7.5°	663.0	661.3	663.0	663.0	663.0	664.7	664.7	664.7	666.4	668.1	668.1
10°	685.1	683.4	685.1	685.1	685.1	681.7	681.7	683.4	681.7	681.7	681.7
12.5°	710.6	710.6	712.3	714.0	714.0	712.3	710.6	708.9	707.2	707.2	707.2
15°	734.4	736.1	737.8	741.2	742.9	742.9	744.6	746.3	744.6	744.6	742.9
17.5°	771.8	775.1	776.8	778.5	778.5	778.5	781.9	787.0	792.1	795.5	792.1
20°	834.6	836.3	839.7	839.7	838.0	839.7	843.1	844.8	848.2	851.6	853.3
22.5°	877.1	880.5	885.6	885.6	883.9	885.6	889.0	889.0	885.6	887.3	890.7
25°	912.8	914.5	917.9	919.6	921.3	929.8	936.6	934.9	928.1	929.8	928.1
27.5°	955.3	958.7	962.1	962.1	962.1	967.2	974.0	977.4	982.5	980.8	975.7
30°	1011.4	1016.5	1018.2	1016.5	1019.9	1025.0	1023.3	1026.7	1035.2	1043.7	1033.5
32.5°	1055.6	1060.7	1065.8	1072.6	1084.5	1091.3	1087.9	1089.6	1094.7	1101.5	1101.5
35°	1121.9	1130.4	1133.8	1135.5	1147.4	1161.0	1171.2	1179.7	1178.0	1172.9	1181.4
37.5°	1222.2	1230.7	1234.1	1240.9	1256.2	1259.6	1274.9	1295.3	1302.1	1295.3	1295.3
40°	1329.3	1337.8	1354.8	1370.1	1393.9	1399.0	1417.7	1426.2	1443.2	1444.9	1434.7
42.5°	1417.7	1427.9	1431.3	1456.8	1489.1	1512.9	1533.3	1535.0	1546.9	1557.1	1545.2
45°	1512.9	1521.4	1526.5	1550.3	1567.3	1596.2	1628.5	1642.1	1647.2	1645.5	1652.3
47.5°	1601.3	1613.2	1618.3	1637.0	1657.4	1681.2	1699.9	1739.0	1747.5	1730.5	1745.8
50°	1655.7	1669.3	1681.2	1722.0	1757.7	1776.4	1791.7	1824.0	1842.7	1827.4	1832.5
52.5°	1740.7	1744.1	1754.3	1771.3	1824.0	1886.9	1903.9	1914.1	1941.3	1949.8	1926.0
55°	1856.3	1868.2	1876.7	1898.8	1920.9	1965.1	2039.9	2053.5	2046.7	2087.5	2045.0
57.5°	1873.3	1895.4	1920.9	1970.2	2014.4	2028.0	2072.2	2124.9	2119.8	2124.9	2128.3
59°	1863.1	1881.8	1903.9	1954.9	2031.4	2050.1	2072.2	2119.8	2141.9	2113.0	2147.0
60°	1866.5	1880.1	1892.0	1932.8	2014.4	2056.9	2070.5	2099.4	2141.9	2102.8	2143.6
62.5°	1852.9	1869.9	1883.5	1907.3	1946.4	2005.9	2058.6	2045.0	2106.2	2075.6	2097.7
65°	1779.8	1798.5	1825.7	1859.7	1905.6	1922.6	1975.3	2004.2	1990.6	2024.6	1988.9
67.5°	1657.4	1674.4	1691.4	1732.2	1783.2	1805.3	1818.9	1871.6	1852.9	1892.0	1851.2
70°	1494.2	1512.9	1536.7	1558.8	1604.7	1623.4	1638.7	1662.5	1669.3	1669.3	1665.9
72.5°	1298.7	1314.0	1329.3	1351.4	1378.6	1395.6	1402.4	1407.5	1434.7	1424.5	1426.2
75°	1077.7	1093.0	1099.8	1108.3	1127.0	1125.3	1132.1	1128.7	1145.7	1138.9	1135.5
77.5°	843.1	848.2	866.9	866.9	861.8	870.3	861.8	856.7	853.3	856.7	856.7
80°	584.8	600.1	612.0	620.5	623.9	620.5	622.2	615.4	615.4	610.3	612.0
82.5°	360.4	375.7	380.8	389.3	391.0	391.0	391.0	385.9	387.6	382.5	385.9
85°	176.8	176.8	183.6	192.1	193.8	197.2	197.2	197.2	197.2	197.2	198.9
87.5°	44.2	44.2	47.6	52.7	52.7	54.4	56.1	57.8	57.8	59.5	59.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	639.2	639.2	639.2	639.2	639.2	639.2	639.2	639.2
2.5°	651.1	651.1	651.1	651.1	651.1	651.1	651.1	651.1
5°	663.0	661.3	661.3	659.6	659.6	657.9	657.9	657.9
7.5°	669.8	669.8	668.1	666.4	664.7	664.7	666.4	666.4
10°	683.4	686.8	688.5	688.5	686.8	686.8	685.1	685.1
12.5°	705.5	708.9	712.3	715.7	715.7	714.0	710.6	708.9
15°	739.5	739.5	741.2	742.9	742.9	739.5	732.7	732.7
17.5°	785.3	781.9	776.8	778.5	780.2	778.5	771.8	775.1
20°	848.2	841.4	838.0	834.6	841.4	841.4	831.2	831.2
22.5°	894.1	889.0	880.5	878.8	883.9	887.3	878.8	873.7
25°	933.2	934.9	924.7	919.6	921.3	923.0	911.1	912.8
27.5°	975.7	977.4	972.3	963.8	960.4	965.5	957.0	953.6
30°	1026.7	1025.0	1028.4	1018.2	1009.7	1014.8	1014.8	1006.3
32.5°	1093.0	1087.9	1089.6	1077.7	1067.5	1065.8	1059.0	1048.8
35°	1183.1	1169.5	1159.3	1152.5	1133.8	1130.4	1130.4	1118.5
37.5°	1300.4	1280.0	1261.3	1261.3	1232.4	1223.9	1229.0	1213.7
40°	1431.3	1424.5	1395.6	1390.5	1359.9	1339.5	1339.5	1320.8
42.5°	1526.5	1535.0	1501.0	1480.6	1460.2	1427.9	1431.3	1407.5
45°	1630.2	1625.1	1596.2	1560.5	1553.7	1519.7	1523.1	1499.3
47.5°	1728.8	1698.2	1684.6	1648.9	1633.6	1594.5	1606.4	1587.7
50°	1824.0	1790.0	1776.4	1733.9	1713.5	1671.0	1672.7	1638.7
52.5°	1922.6	1892.0	1871.6	1817.2	1781.5	1750.9	1744.1	1728.8
55°	2050.1	2017.8	1968.5	1917.5	1890.3	1846.1	1851.2	1827.4
57.5°	2099.4	2079.0	2026.3	1995.7	1944.7	1900.5	1890.3	1847.8
59°	2097.7	2085.8	2033.1	2012.7	1939.6	1902.2	1883.5	1849.5
60°	2085.8	2082.4	2029.7	2004.2	1927.7	1893.7	1876.7	1854.6
62.5°	2050.1	2048.4	1988.9	1958.3	1895.4	1868.2	1858.0	1829.1
65°	1997.4	1968.5	1922.6	1902.2	1837.6	1817.2	1788.3	1759.4
67.5°	1871.6	1807.0	1800.2	1774.7	1718.6	1693.1	1674.4	1647.2
70°	1664.2	1621.7	1621.7	1589.4	1550.3	1538.4	1512.9	1482.3
72.5°	1405.8	1395.6	1400.7	1363.3	1344.6	1337.8	1315.7	1288.5
75°	1123.6	1125.3	1120.2	1111.7	1106.6	1108.3	1084.5	1072.6
77.5°	851.6	866.9	863.5	851.6	863.5	861.8	841.4	836.3
80°	606.9	613.7	617.1	610.3	617.1	612.0	595.0	593.3
82.5°	382.5	384.2	387.6	380.8	382.5	380.8	368.9	368.9
85°	195.5	202.3	193.8	187.0	187.0	180.2	176.8	178.5
87.5°	57.8	61.2	54.4	54.4	51.0	47.6	45.9	45.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)